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## ADM75983 ID ADM75983 XX ADM7 AC ADM7 XX ADM7 XX ADM7 XX Wilc XX Wilc XX MHC XX WO2003087161-A1 human Factor VIII; non-immunogenic; immunogenic; T-cell epitope; MHC class II; ligand; vaccine; immunogenicity; Gaucher's disease Wild-type B-domain deleted human FVIII protein sequence 03-JUN-2004 ADM75983; 17-APR-2003; 2003WO-EP004063 23-OCT-2003 ADM75983 standard; protein; 1438 AA (first entry)

RESULT 1

ALIGNMENTS

18-APR-2002; 2002EP-00008712. 24-MAR-2003; 2003EP-00006554.

(MERE ) MERCK PATENT GMBH.

Jones T, Baker M, Carr FJ;

WPI; 2003-845307/78.

New modified human Factor VIII molecule being substantially non-immunogenic or less immunogenic than non-modified human Factor VIII, useful in preparing a composition for treating e.g., Gaucher's disease.

Disclosure; Fig 10; 68pp; English.

The invention relates to a novel modified human Factor VIII molecule. The modified human Factor VIII molecule being substantially non-immunogenic or less immunogenic than a non-modified human Factor VIII and having essentially the same biological specificity and activity when used in vivo. The modified human Factor VIII molecule comprises specifically altered amino acid residues compared with the non-modified parental molecule, where the altered amino acid residues cause a reduction or an elimination of one or more of the T-cell epitopes, which act in the parental non-modified molecule as MHC class II binding ligands and stimulate T-cells. The potential MHC class II binding ligands are useful for the manufacture of the modified Factor VIII molecule or a

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DQRQGAEPRKNEVKPNETKTYFWKVQHHMAPTKDEFDCKAWAYFSDVDLEKDVHSGLIGF
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04-JUN-1997;
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                        Jolly DJ, Barber JR,
Chong K, De La Vega D,
Mittelstaedt DM, Pruss
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7693
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45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30
133.5	133.5	134.5	134.5	135	136.5	137.5	137.5	139	140.5	140.5	141.5	148	149	149.5	171
1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	2.2
2925	567	1132	791	343	2657	903	580	1193	1217	1196	1196	622	1883	578	1385
2	2	N	N	N	N	N	N	N	N	N	2	N	N	N	N
T00133	T44928	H82887	T16031	T35030	T18497	F82080	F84828	JC4901	T18209	JQ1467	S46430	S62580	G82875	S66353	T14158
RNA-directed RNA p	L-ascorbate oxidas	hypothetical prote	hypothetical prote	probable copper ox	hypothetical prote	preprotein translo	probable laccase (	nontoxic-nonhemagg	mnxG protein - Bac	toxin, nontoxic co	botulinum neurotox	probable multicopp	hypothetical prote	L-ascorbate oxidas	neurexin IV - mous

## ALIGNMENTS

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1 72 2 62	94.1 81.1	2351 2133	21	ЕZHU Т42763	gulation fact gulation fact
3 6201 4 2391.5	80.6 31.1	2319 2224		A47004 KFHU5	coagulation factor
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2 2	22.7	737		T31349	hypothetical prote
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A; Molecule type: DNA	A;Status: preliminary; translated from GB/EMBL/DDBJ	A; Accession: I54318	A; Reference number: 154318; MUID: 93265012; PMID: 1303178	A; Title: Sequence of the exon-containing regions of the human factor VIII gene.	Hum. Mol. Genet. 1, 199-200, 1992	R;Gitschier, J.; Wood, W.I.	C;Accession: 154318; A00525; I58059; A23584; A26174; A42348; A43986; S63527; S66445; B428	C;Date: 28-Aug-1985 #sequence_revision 28-Aug-1985 #text_change 31-Dec-2004	C; Species: Homo sapiens (man)	N; Alternate names: antihemophilic factor A; coagulation factor VIIIc; procoagulant compor	coagulation factor VIII precursor [validated] - human	EZHU	7. CCC 1 +

A;Residues: 1-1921,'S',1923-2351 <RES>
A;Cross-references: UNIPROT:P00451; UNIPARC:UPI000016A8D3; GB:M88648; NID:g182381; PIDN:;A;Cross-references: UNIPROT:P00451; UNIPARC:UPI000016A8D3; GB:M88648; NID:g182381; PIDN:;A;Wood, W.I.; Capon, D.J.; Simonsen, C.C.; Eaton, D.L.; Gitschier, J.; Keyt, B.; Seeburg, Nature 312, 330-337, 1984
A;Title: Expression of active human factor VIII from recombinant DNA clones.
A;Reference number: A00525; MUID:85061548; PMID:6438526 Accession: A00525

A;Status: nucleic acid sequence not shown; translated from GB/EMBL/DDBJ

A;Molecule type: mRNA
A;Residues: 1-74,'V','6-1259,'E',1261-2351 <RE2>
A;Cross-references: UNIPARC:UPI0000144860; GB:K01740; NID:g182802; PIDN:AAA52484.1; PID:gA;Cross-references: UNIPARC:UPI0000144860; GB:K01740; NID:g182802; PIDN:AAA52484.1; PID:gR;Truett, M.A.; Blacher, R.; Burke, R.L.; Caput, D.; Chu, C.; Dina, D.; Hartog, K.; Kuo, B.; Randolph, A.; Urdea, M.S.; Valenzuela, P.; Dahl, H.H.; Favalaro, J.; Hansen, J.; No)
DNA 4, 333-349, 1985

A;Title: Characterization of the polypeptide composition of human factor VIII:C and the rA;Reference number: A23584; MUID:86081164; PMID:3935400 A;Accession: A23584

A;Molecule type: mRNA
A;Residues: 1-2351 <TRU>
A;Residues: 1-2351 <TRU>
A;Cross-references: UNIPARC:UPI000012A416; GB:M14113; NID:g182817; PIDN:AAA52485.1;
R;Eaton, D.; Rodriguez, H.; Vehar, G.A.
Biochemistry 25, 505-512, 1986 PID:

specific cleavages h

A; Title: Proteolytic processing of human factor VIII. Correlation of

A; Reference number: A26174; MUID:86159740; PMID:3082357 A; Accession: A26174

A;Molecule type: protein A;Residues: 20-36;392-399,'X',401-402;1668-1678;1709-1722,'D',1723-1725;1741-1755 <BAT> A;Cross-references: UNIPARC:UP10000172296; UNIPARC:UP10000172297; UNIPARC:UP10000172298;

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J. Biol. Chem. 266, 740-746, 1991
A;Title: Sulfation of Tyr(1680) of human blood coagulation factor VIII is e A;Reference number: A56109; MUID:91093266; PMID:1898735
A;Contents: annotation; sulfation
R;Gitschier, J.; Wood, W.I.; Goralka, T.M.; Wion, K.L.; Chen, E.Y.; Eaton, R;Gitschier, J.; Wood, W.I.; Goralka, T.M.; Wion, K.L.; Chen, E.Y.; Eaton, R;Gitschier, J.; Wood, W.I.; Goralka, T.M.; Wion, K.L.; Chen, E.Y.; Eaton, R;Gitschier, J.; Wood, W.I.; Goralka, T.M.; Wion, K.L.; Chen, E.Y.; Eaton, R;Gitschier, J.; Wood, W.I.; Goralka, T.M.; Wion, K.L.; Chen, E.Y.; Eaton, R;Gitschier, J.; Wood, W.I.; Goralka, T.M.; Wion, K.L.; Chen, E.Y.; Eaton, R;Gitschier, J.; Wood, W.I.; B5061547; PMID:6438525
A;Title: Characterization of the human factor VIII gene.
A;Reference number: A56196; MUID:850861547; PMID:7613471
A;Contents: annotation; disulfide bonds and free cysteines in the heavy and l A;Reference number: A56216; MUID:9538127; PMID:7613471
A;Contents: annotation; disulfide bonds
A;Rotents: annotation; disulfide bonds
A;Rotents: annotation; disulfide bonds
A;Rotents: J.; Heding, A.; Talbo, G.; Persson, E.; Thomsen, J.; Ezban, M. Eur.; J. Biochem. 234, 773-779, 1995
A;Title: Amino acid residues 721-729 are required for full factor VIII acti A;Rotence number: S63527; MUID:96163459; PMID:8575434
A;Accession: S63527
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A;Residues: 733-752;753-759 < KJA>
A;Residues: 733-752;753-759 < KJA>
A;Residues: WIIPARC:UPI00001722A4; UNIPARC:UPI00001722A5
A;Lind, P.; Larsson, K.; Spira, J.; Sydow-Baeckman, M.; Almstedt, Bur. J. Biochem. 232, 19-27, 1995
A;Title: Novel forms of B-domain-deleted recombinant factor VIII
A;Reference number: S66445; MUID:96048024; PMID:7556150
A;Accession: S66445
                                       F;20-356/Domain: Al <DAl>
F;23-348/Domain: ferroxidase repeat homology <FOl>
F;33-759/Domain: A2 <DA2>
F;402-730/Domain: ferroxidase repeat homology <FO2>
F;402-730/Domain: B <DB0>
                                                                                                                                             A; Pathway: blood coagulation factors V/VIII; discoidin I amino-terminal homology; ferroxi. C; Superfamily: coagulation factors V/VIII; discoidin I amino-terminal homology; ferroxi. C; Keywords: acute phase; blood coagulation; duplication; glycoprotein; hemophilia A; pl. F;1-19/Domain: signal sequence #status predicted <SIG> F;20-2351/Product: coagulation factor VIII #status experimental <MAT> E;20-2351/Product: coagulation factor VIII heavy chain #status experimental <ACH> E;20-356/Domain: Al <DAL>
                                                                                                                                                                                                                                                                                                                                                                   A;Cross-references: GDB:119124; OMIM:306700
A;Map position: Xq28-Xq28
A;Introns: 48/2; 89/1; 130/1; 201/1; 224/1; 263/1; 337/1; 424/2;
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J. Biol.
                                                                                                                                                                                                                                                                                                                         A; Description: acts as a cofactor, with calcium
                                                                                                                                                                                                                                                                                                                                                    C; Function:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A; Molecule type: protein
A; Residues: 1668-1685 <LIN>
A; Croos-references: UNIPARC: UPI00001722A6
C; Comment: Factor VIII is activated by fa
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A;Residues: 'X',517-523;1853-1860,'X',1862-1864,'X',1866 <FAY>
A;Residues: 'X',517-523;1853-1860,'X',1862-1864,'X',1866 <FAY>
A;Cross-references: UNIPARC:UPI00001722A2; UNIPARC:UPI00001722A3
R;Leyte, A; van Schijndel, H.S; Niehrs, C.; Huttner, W.B.; Verbeet, M.P.; Mertens,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     J. Biol. Chem. 264, 14005-14010, 1300
A;Title: Intersubunit fluorescence energy transfer in human
A·Paference number: A43986; MUID:89340500; PMID:2503509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A, Experimental source: recombinant material from Chinese hamster ovary cells A, Note: sequence extracted from NCBI backbone and corrected to correspond wi R, Fay, P.J., Smudzin, T.M.
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A;Residues: 20-36;356-371;392-408;582-594;1668-1669,'X',1671;1672-1692;1693-1708;1709-1:
A;Cross-references: UNIPARC:UPI0000172296; UNIPARC:UPI000017229B; UNIPARC:UPI000017229C;
                    F;1668-2351/Product:
                                                                                                                                                                                                                                                                                                                                                                                                                                                       A;Gene: GDB:F8C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A;Status: preliminary
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A;Accession: A43986
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A;Accession: A42348
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iochemistry 31,
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3315-3325,
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F;1716-2038/Domain: ferroxidase repeat homology <PO3>
F;2039-2181/Domain: C1 <DC1>
F;2039-2188/Domain: discoidin I amino-terminal homology <DN1>
F;2039-2188/Domain: discoidin I amino-terminal homology <DN2>
F;2039-2188/Domain: C2 <DC2>
F;2192-2345/Domain: discoidin I amino-terminal homology <DN2>
F;2193-2345/Disulfide bonds: #status predicted #status predicted #status experimental F;1708-1709/Cleavage site: Arg-Ser (coagulation factor Xa, thrombin) #status experimental F;1708-1709/Cleavage site: Arg-Ser (coagulation factor Xa, thrombin) #status experimental F;1708-1704/Cleavage site: Arg-Ser (coagulation factor Xa, thrombin) #status experimental F;1708-1704/Cleavage site: Arg-Ala (coagulation factor Xa, thrombin) #status experimental F;1708-1704/Cleavage site: Arg-Ala (coagulation factor Xa) #status experimental F;1708-1704/Cleavage site: Arg-Ala (coagulation factor Xa) #status experimental
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Best Local Similarity
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DSYEDISAYLLSKNNAIEPRSF-----
                                                                                                                      KMYYEDTLILFPFSGETVFMSMENPGLWILGCHNSDFRNRGMTALLKVSSCDKNTGDYYE 720
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        Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
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                                                                                                                                   Gitschier J., Wood W.I., Shuman M.
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Rieder M.J., Daniels R.L., da Ponte S.H., Hastings
Rajkumar N., Yi Q., Nickerson D.A.;
"SeattleSNPs. NHLBI HL66682 program for genomic ap
FHCRC, Seattle, WA (URL: http://pga.gs.washington.
Submitted (OCT-2004) to the EMBL/GenBank/DDBJ data
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Mertens K., van Mourik J.A.;
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LINES-95245332; PubMed-7728145;
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Mutat. 5:1-22(1995).
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Janco R.L., Phillips
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Baleja J.D.;
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"Recurrent mutations and three gene of hemophilia A patients Blood 75:662-670(1990).
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Chan V., Chan T.K., Tong T.M., Todd D.;
"A novel missense mutation in exon 4 of the
resulting in moderately severe hemophilia A.
Blood 74:2688-2691(1989).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE=90001543; PubMed=2506948;
Shima M., Ware J., Yoshioka A., Fukui H., Fulcher
"An arginine to cysteine amino acid substitution
thrombin cleavage site in a dysfunctional factor
Blood 74:1612-1617(1989).
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VARIANT
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Arai M. Inaba H., Higuchi M., Antonarakis
Fujimaki M., Hoyer L.W.;
"Direct characterization of factor VIII in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MEDLINE=89197216; PubMed=2495245; Inaba H., Fujimaki M., Kazazian H. "Mild hemophilia A resulting from of the factor VIII gene."; Hum. Genet. 81:335-338(1989).
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Am. J. Hum. Genet. 42:718-725(1988).
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372-->histidine).";
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Antonarakis S.E.,
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## ALIGNMENTS

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Best Local Similarity 100.0%; Matches 1438; Conservative 0
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                                                                      LLVCHTNTLNPAHGRQVTVQEFALFFTIFDETKSWYFTENMERNCRAPCNIQMEDPTFKE
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                                                   LLVCHTNTLNPAHGRQVTVQEFALFFTIFDETKSWYFTENMERNCRAPCNIQMEDPTFKE
                                                                                                                                                                                    FQEFTDGSFTQPLYRGELNEHLGLLGPYIRAEVEDNIMVTFRNQASRPYSFYSSLISYEE
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GENERAL INFORMATION:

APPLICANT: Chan, Sham-Yuen

APPLICANT: Chan, Sham-Yuen

APPLICANT: Kelsey, William

APPLICANT: Yee, Helena

TITLE OF INVENTION: Expression System for Factor VIII

FILE REFERENCE: MSB-7255

CURRENT APPLICATION NUMBER: US/09/209,916

CURRENT FILING DATE: 1998-12-10

INUMBER OF SEQ ID NOS: 2

SOFTWARE: Patentin Ver. 2.0

SEQ ID NO 1

LENGTH: 1438

TYPE: PRT

ORGANISM: Artificial Sequence

FEARURE:

OTHER INFORMATION: Description of Artificial Sequence: De:

OTHER INFORMATION: human factor VIII sequence: De:
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SLPGLIGCHRKSVYWHVIGMGTTPEVHSIFLEGHTFLVRNHRQASLEISPITFLTAQTLL
                                                                                                                                                                                                     IAKPRPPWMGLLGPTIQAEVYDTVVITLKNMASHPVSLHAVGVSYWKASEGAEYDDQTSQ 120
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                                                                     EGSLAKEKTQTLHKFILLFAVFDEGKSWHSETKNSLMQDRDAASARAWPKMHTVNGYVNR
                                                                                                                     REKEDDKVFPGGSHTYVWQVLKENGPMASDPLCLTYSYLSHVDLVKDLNSGLIGALLVCR
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                                                   EGSLAKEKTQTLHKFILLFAVFDEGKSWHSETKNSLMQDRDAASARAWPKMHTVNGYVNR
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301 MDLGQFLLFCHISSHQHDGMEAYVKVDSCPEEPQLRMKNNEEAEDYDDDLTDSEMDVVR	241 SLPGLIGCHRKSVYWHVIGMGTTPEVHSIFLEGHTFLVRNHRQA 	181 EGSLAKEKTOTLHKFILLFAVFDEGKSWHSETKNSLMODRD 	121 REKEDDKVFPGGSHTYVWQVLKENGPWASDPLCLTYSYLSI 	61 IAKPRPPWMGLLGPTIQAEVYDTVVITLKNWASHPVSLHA 	1 ATRRYYLGAVELSWDYMQSDLGELPVDARFPPRVPKSFPFNT 	99.9%; Score 7684; DB 4; lmilarity 99.9%; Pred. No. 0; ; Conservative 0; Mismatches 1;	ALIGNM  T 1  -006-091-1  lication No. US20020102730A1  ERAL INFORMATION: PLICANT: Cho, Myung-Sam PLICANT: Cho, Myung-Sam PLICANT: Chen, Sham-Yuen PLICANT: Yee, Helena FLICANT: Y	9 7227 93.9 2332 4 US-10-239.9 7227 93.9 2332 4 US-10-239.1 7227 93.9 2332 5 US-10-938.2 7227 93.9 2332 5 US-10-938.3 7227 93.9 2332 5 US-10-938.3 7227 93.9 2332 5 US-10-813.3	7236 9 9 7236 9 1 7236 9 1 7236 9 2 7236 9 2 7236 9 3 7236 9 4 7237 9 5 7227 9
EAEDYDDDLTDSEMDVVRF 360	RQASLEISPITFLTAQTLL 300                  RQASLEISPITFLTAQTLL 300	DRDAASARAWPKMHTVNGYVNR 240 	YLSHVDLVKDLNSGLIGALLVCR 180	.VGVSYWKASEGABYDDQTSQ 120                    VGVSYWKASEGABYDDQTSQ 120	PENTSVYKKTLFVEFTDHLFN 60              60 	Length 1438; Indels 0; Gaps 0	Sequence 21 Sequence 21 Derived from	ψννι	Sequence 30, Appli Sequence 1, Appli Sequence 2, Appli Sequence 30, Appli Sequence 30, Appli Sequence 2, Appli Sequence 2, Appli Sequence 2, Appli Sequence 2, Appli Sequence 2, Appli

1381 FQNGKVKVFQGNQDSFTPVVNSLDPPLLTRYLRIHPQSWVHQIALRMEVLGCEAQDLY 1438	1321 RSNAWRPQVNNPKEWLQVDFQKTMKVTGVTTQGVKSLLTSMYVKEFLISSSQDGHQWTLF 1380	1261 HYSIRSTLRMELMGCDLNSCSMPLGMESKAISDAQITASSYFTNMFATWSDSKARLHLQG 1320 	1201 SLYISQPIIMYSLDGKKWQTYRGNSTGTLMVFFGNVDSSGIKHNIFNPPIIARYIRLHPT 1260 	1141 FQITASGQYGQWAPKLARLHYSGSINAWSTKEPFSWIKVDLLAPMIIHGIKTQGARQKFS 1200 	1081 LYNLYPGVFETVEMLPSKAGIWRVECLIGEHLHAGMSTLFLVYSNKCQTPLGMASGHIRD 1140 	1021 NYRFHAINGYIMDTLPGLVMAQDQRIRWYLLSMGSNENIHSIHFSGHVFTVRKKEEYKMA 1080 	961 LLVCHTNTLNDAHGRQVTVQEFALFFTIFDETKSWYFTENMERNCRAPCNIQMEDDTFKE 1020	901 DQRQGAEPRKNFVKPNETKTYFWKVQHHMAPTKDEFDCKAWAYFSDVDLEKDVHSGLIGP 960 	841 FQEFTDGSFTQPLYRGELNEHLGLLGPYIRAEVEDNIMVTFRNQASRPYSFYSSLISYEE 900	781 EDFDIYDEDENQSPRSFQKKTRHYFIAAVERLWDYGWSSSPHVLRNRAQSGSVPQFKKVV 840 	721 DSYEDISAYLLSKNNAIEPRSFSQNPPVLKRHQREITRTTLQSDQEEIDYDDTISVEMKK 780                721 DSYEDISAYLLSKNNAIEPRSFSQNPPVLKRHQREITRTTLQSDQEEIDYDDTISVEMKK 780	661 KMVYEDTLTLFPFSGETVFMSMENPGLWILGCHNSDFRNRGMTALLKVSSCDKNTGDYYE 720	601 VQLEDDEFQASNIMHSINGYVFDSLQLSVCLHEVAYWYILSIGAQTDFLSVFFSGYTFKH 660	541 RDLASGLIGPLLICYKESVDQRGNQIMSDKRNVILFSVFDENRSWYLTENIQRFLPNPAG 600	481 TDVRPLYSRRLPKGVKHLKDFPILPGEIFKYKWTVTVEDGPTKSDPRCLTRYYSSFVNME 540	421 RKYKKVRFMAYTDETFKTREAIQHESGILGPLLYGEVGDTLLIIFKNQASRPVNIYPHGI 480	61 61	301 MDLGOFLLFCHISSHOHDGMEAYVKVDSCPEEPOLRMKNNEEAEDYDDDLTDSEMDVVRF 360
QY 601 VQLEDPEFQASNIMHSINGYVFDSLQLSVCLHEVAYWYILSIGAQTDFLSVFFSGYTFKH 660 	Oy 541 RDLASGLIGPLLICYKESVDORGNOIMSDKRNVILFSVFDENRSWYLTENIQRFLPNPAG 600	Qy 481 TDVRPLYSRRLPKGVKHLKDFPILPGEIFKYKWTVTVEDGPTKSDPRCLTRYYSSFVNME 540	Qy 421 RKYKKVRFWAYTDETFKTREAIQHESGILGPLLYGEVGDTLLIIFKNQASRPYNIYPHGI 480	Qy 361 DDDNSPSFTQIRSVAKKHPKTWVHYIAAEEEDWDYAPLVLAPDDRSYKSQYLNNGPQRIG 420	Qy 301 MDLGQFLLFCHISSHQHDGMEAYVKVDSCPEEPQLRMKNNEEAEDYDDDLTDSEMDVVRF 360	Qy 241 SLPGLIGCHRKSVYMHVIGMGTTPEVHSIFLEGHTFLVRNHRQASLEISPITFLTAQTLL 300	OY 181 EGSLAKEKTOTLHKFILLFAVFDEGKSWHSETKNSLMODRDAASARAWFKMHTVNGYVNR 240	Qy 121 REKEDDKVFPGGSHTYVWQVLKENGPMASDPLCLTYSYLSHVDLVKDLNSGLIGALLVCR 180	Qy 61 IAKPRPPMMGLLGPTIQAEVYDTVVITLKNMASHPVSLHAVGVSYWKASEGAEYDDQTSQ 120	. Qy 1 ATRRYYLGAVELSWDYMQSDLGELPVDARFPPRVPKSFPFNTSVVYKKTLFVEFTDHLFN 60	Query Match 99.9%; Score 7684; DB 4; Length 1438; Best Local Similarity 99.9%; Pred. No. 0; Matches 1437; Conservative 0; Mismatches 1; Indels 0; Gaps 0;	; FEATURE: ; OTHER INFORMATION: Description of Artificial Sequence: Derived from ; OTHER INFORMATION: human factor VIII sequence US-10-047-257-1	; LENGTH: 1438 ; TYPB: PRT ; ORGANISM: Artificial Sequence	CURRENT FILING DATE: 2002-01-15 NUMBER OF SEQ ID NOS: 2 SOFTWARE: Patentin Ver. 2.0 SEC ID NO.	a e e	GENERAL INFORMATION:  APPLICANT: Cho, Myung-Sam  APPLICANT: Chan, Sham-Yuen  APPLICANT: Kolsey William	RESULT 2 US-10-047-257-1 ; Sequence 1, Application US/10047257 ; publication No. US2002011515281	

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EGHTFLVRNHRQA	SETKNSLMQDRDAASARAW              ETKNSLMQDRDAASARAW	SALT 	ASHPVSLHAVGVS              ASHPVSLHAVGVS	PPRVPKSFPENTSV 	DB 1; ; 6 0;		· ν	234-1150 2234-1102 2234-1120 2234-16-24 1176
	BARAWPKMHTVNGYVNR           BARAWPKMHTVNGYVNR	YLSHVDLVKDLNSGLIGALLVC	EYDDQTS	NTSVVYKKTLFVBFTDHLF	Length 1438; Indels 0; Gaps			Sequence 1150, sequence 1120, sequence 96, App Sequence 244, App Sequence 11643, sequence 11643, sequence 11643, sequence 11643, sequence 11643, sequence 20, App Sequence 77, App Sequence 63, App Sequence 63, App Sequence 53, App Sequence 53, App Sequence 53, App Sequence 374, App
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		YWHVIGMGTTPEVHSIFLEGHTFLVRNHRQASLEISPITFLTAQTLL 30	-
		CHISSHQHUGMEAYVKVDSCPEEPQLKMKNNEKAEDYDDDLTUSEMDVVRF 3	
	361 361	KTWVHYIAAEEED             KTWVHYIAAEEED	
		RKYKKVRFMAYTDETFKTREAIQHESGILGPLLYGEVGDTLLIIFKNQASRPYNIYPHGI 480	
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		RDLASGLIGPLLICYKESVDQRGNQIMSDKRNVILFSVFDENRSWYLTENIQRFLFNPAG 600	
	109	VQLEDPEPQASNIMHSINGYVFDSLQLSVCLHEVAYWYILSIGAQTDFLSVFPSGYTFKH 660	
•	661	XMVYEDTLTLFPFSGETVFMSMENPGLWILGCHNSDFRNRGMTALLKVSSCDKNTGDYYE 720	
~	721 721	DSYEDISAYLLSKNNAIEPRSFSQNPPVLKRHQREITRTTLQSDQEEIDYDDTISVEMKK 780	
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	961 961	LLVCHTNTLNPAHGRQVTVQEFALFFTIFDETKSWYFTENMERNCRAPCNIQMEDPTFKE 102	0 0
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1321 RSNAWRPQVNNPKEWLQVDFQKTMKVTGVTTQGVKSLLTSMYVKEFLISSSQDGHQWTLF 1380

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CURRENT APPLICATION NUMBER: US/10/507,956
CURRENT FILING DATE: 2004-09-14
PRIOR APPLICATION NUMBER: GB 0207092.8
PRIOR FILING DATE: 2003-03-26
NUMBER OF SEQ ID NOS: 1
SOFTWARE: PatentIn version 3.1
SEQ ID NO 1
LENGTH: 1467
TYPE: PAT
ORGANISM: Porcine
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Best Local Similarity
Matches 1213; Conserv
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TITLE OF INVENVION: Stable pharmaceutical composition containing factor VIII FILE REFERENCE: 44284.WOO1/JMD
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70 22 29.3 146 1 US-10-835-615-777 71 22 29.3 146 1 US-10-835-615-777 72 29.3 146 1 US-10-835-615-779 73 22 29.3 146 1 US-10-835-615-781 74 22 29.3 146 1 US-10-835-615-783 75 22 29.3 146 1 US-10-835-615-785 76 27 29.3 146 1 US-10-835-615-785	66 22 29.3 146 1 US-10-835-615-769 67 22 29.3 146 1 US-10-835-615-771 68 22 29.3 146 1 US-10-835-615-773	63 22 29.3 146 1 US-10-835-615-763 64 22 29.3 146 1 US-10-835-615-765 65 22 29.3 146 1 US-10-835-615-767	60 22 29.3 146 1 US-10-835-615-757 61 22 29.3 146 1 US-10-835-615-759 62 22 29.3 146 1 US-10-835-615-761	58 22 29.3 146 1 US-10-835-615-753 59 22 29.3 146 1 US-10-835-615-755	56 22 29.3 146 1 US-10-835-615-749 57 22 29.3 146 1 US-10-835-615-751	54 22 29.3 146 1 US-10-835-615-745 55 22 29.3 146 1 US-10-835-615-745	52	50 22 29.3 146 1 US-10-835-615-733	48 22 29.3 146 1 US-10-835-615-725	46 22 29.3 146 1 US-10-835-615-719 47 22 29.3 146 1 US-10-835-615-721	44 22 29.3 146 1 US-10-835-615-715	42 22 29.3 146 1 US-10-835-615-711 43 22 29.3 146 1 US-10-835-615-713	40 22 29.3 146 1 US-10-835-615-707	3/ 22 29.3 146 1 US-1U-835-615-701 38 22 29.3 146 1 US-10-835-615-703 39 22 29.3 146 1 US-10-835-615-705	35 22 29.3 146 1 US-10-835-615-697 36 22 29.3 146 1 US-10-835-615-699	33 22 29.3 146 1 US-10-835-615-693 34 22 29.3 146 1 US-10-835-615-695	31 22 29.3 146 1 US-10-835-615-685 32 22 29.3 146 1 US-10-835-615-687	29 22 29.3 146 1 US-10-835-615-681 30 22 29.3 146 1 US-10-835-615-683	27 22 29.3 146 1 US-10-835-615-675 28 22 29.3 146 1 US-10-835-615-679	25	23 22 29.3 146 1 US-10-835-615-669	22 29.3 146 1 US-10-835-615-665	20 22 29.3 146 1 US-10-835-615-661	18 22 29.3 146 1 US-10-835-615-657	16 22 29.3 146 1 US-10-835-615-653	14	13 22 29.3 146 1 US-10-835-615-647	11 22 29.3 146 1 US-10-835-615-643	09 22 29.3 146 1 US-10-835-615-639 10 22 29.3 146 1 US-10-835-615-641	07 22 29.3 146 1 US-10-835-615-635 08 22 29.3 146 1 US-10-835-615-637	06 22 29.3 146 1 US-10-835-615-633	03 22 29.3 146 1 US-10-835-615-627 03 22 29.3 146 1 US-10-835-615-627 04 22 29.3 146 1 US-10-835-615-629 05 29 3 146 1 US-10-835-615-629
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RESULT 1

US-10-511-559-80

Sequence 80, Application US/10511559

Publication No. US20050256304A1

GENERAL INFORMATION:

APPLICANT: BAKER, Matthew

APPLICANT: CARR, Francis, J.

TITLE OF INVENTION: MODIFIED FACTOR VIII

FILE REFERENCE: MER-133

CURRENT APPLICATION NUMBER: US/10/511,559

CURRENT FILING DATE: 2004-10-15

PRIOR APPLICATION NUMBER: PCT/EP03/04063

PRIOR FILING DATE: 2003-04-17

PRIOR FILING DATE: 2003-04-18

PRIOR FILING DATE: 2003-04-18

PRIOR FILING DATE: 2003-04-18

PRIOR RPPLICATION NUMBER: EP 03006554.4

PRIOR FILING DATE: 2003-03-24

NUMBER OF SEQ ID NOS: 1147

SOFTMARE: FastSEQ for Windows Version 4.0

SEQ ID NO 80

LENGTH: 15
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; Sequence 73, Application US/10511559
; Publication No. US20050256304A1
; GENERAL INFORMATION:
                                                                                                                                                                                     ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Epitope of human Factor VIII
US-10-511-559-80
                                                                                                                                       Query Match
Best Local S
Matches 15
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                                                                                                      1 MSSSPHVLRNRAQSG
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US-10-835-615-799
US-10-835-615-801
US-10-835-615-801
US-10-835-615-803
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US-10-835-615-833
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Pred. No.
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APPLICANT: BAKER, Matthew
APPLICANT: CARR, Francis, J.
APPLICATION NUMBER: US/10/511,559
CURRENT FILING DATE: 2003-04-10-15
PRIOR APPLICATION NUMBER: PCT/EP03/04063
PRIOR FILING DATE: 2003-04-17
PRIOR APPLICATION NUMBER: EP 02008712.8
PRIOR FILING DATE: 2002-04-18
PRIOR FILING DATE: 2003-03-24
NUMBER OF SEQ ID NOS: 1147
SOPTWARR: FASESEQ for Windows Version 4.0
SEQ ID NO 831
LENGTH: 13
TYPE: PRT
RESULT 4
US-10-511-559-832
; Sequence 832, Application US/10511559
; Publication No. US20050256304A1
; GENERAL INFORMATION:
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US-10-511-559-831
; Sequence 831, Application US/10511559
; Publication No. US20050256304A1
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; TYPE: PRT
; ORGANISM: homo sapiens
US-10-511-559-73
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APPLICANT: BAKER, Matthew
APPLICANT: CARR, Francis, J.
TITLE OF INVENTION: MODIFIED FACTOR VIII
FILE REFERENCE: MER-133
CURRENT APPLICATION NUMBER: US/10/511,559
CURRENT FILING DATE: 2004-10-15
PRIOR APPLICATION NUMBER: ECT/EP03/04063
PRIOR FILING DATE: 2003-04-17
PRIOR APPLICATION NUMBER: EP 02008712.8
PRIOR FILING DATE: 2002-04-18
PRIOR FILING DATE: 2003-03-4
PRIOR FILING DATE: 2003-03-24
NUMBER OF SEQ ID NOS: 1147
SOFTMARE: FastSEQ for Windows Version 4.0
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Best Local S
Matches 13
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APPLICANT: BAKER, Mat
                                                                                                                                                                                                                FEATURE: OTHER INFORMATION: Potential Epitope of human Factor VIII
                                                                                                                                                                                                                                      TYPE: PRT ORGANISM: Artificial Sequence
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15; Conserv
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13; Conserv
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100.0%; Pr/
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                                                                                                                                                                  Score 65;
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Perfect score:
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   of hits satisfying chosen parameters:
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Match
   Published Applications AA_Main:*

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2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*

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Listing first 1000
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   | 115-10-450-763-3841  | 115-10-732-923-5975  | US-10-108-260A-455   | US-10-/32-923-2288   | 10.10.722.022.220   
   | 115-09-738-626-4252  | US-10-282-122A-4814   | US-10-767-701-4300  | US-10-369-493-621   | US-10-996-058-48   
   | 0-411-C24-01-CO  | 00 10 425 114 01 00  | 110-438-118-38869  | TIS-10-282-122A-6384   | US-10-282-122A-6875   
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RESULT 2
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'Sequence 59, Application US/10433273
Publication No. US20040096456A1
GENERAL INFORMATION:
APPLICANT: Regents of the University of Minnesota
APPLICANT: Conti-Fine, Bianca M.
TITLE OF INVENTION: Methods to Treat Hemophilia
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Best Local S
Matches 15
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                                                                                                                                                                                                                                                                                                                NUMBER OF SEQ ID NOS: 127
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 109
LENGTH: 15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: BAKER, Matthew
APPLICANT: CARF, Francis J.
APPLICANT: CARF, Francis J.
APPLICANT: CARFER, Graham
TITLE OF INVENTION: METHOD FOR MAPPING AND
TITLE OF INVENTION: T-CELL EPITOPES
                                                                                                                                                                                                                                                                                                                                                                                                             CURRENT APPLICATION NUMBER: US/11/009,460
CURRENT FILING DATE: 2004-12-10
PRIOR APPLICATION NUMBER: PCT/EP03/06110
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PRIOR FILING DATE: 2003-06-11
PRIOR APPLICATION NUMBER: EP02012919.3
PRIOR FILING DATE: 2002-06-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILE REFERENCE: MER-135
                                                                                                                                                                                                                                                                           ORGANISM: Artificial Sequence FEATURE:
                                                                                                                                                                                                                                                             OTHER INFORMATION: Potential T-cell Epitopes
                                                                                                                                                                                                                                                                                                        TYPE: PRT
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                                                                                                                                                       1 MSSSPHVLRNRAQSG 15
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US-10-425-115-332681
US-10-425-115-332681
US-10-425-15-36328
US-10-426-761-36328
US-10-426-715-3644
US-10-425-115-185949
US-10-425-115-185949
US-10-427-115-185949
US-10-427-963-134731
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US-10-427-999-170065
US-10-427-999-17003
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Pred. No. 2e-06;
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APPLICANT: Conti-Fine, Bianca M.
TITLE OF INVENTION: Methods to Treat Hemophilia
FILE REFERNCE: 600.507W01
CURRENT APPLICATION NUMBER: US/10/433,273
CURRENT FILING DATE: 2003-11-17
PRIOR APPLICATION NUMBER: US 60/250,430
PRIOR FILING DATE: 2000-12-01
NUMBER OF SEQ ID NOS: 61
SEQ ID NO 4
LENGTH: 60
TYPE: PRT
ORGANISM: Homo sapiens
US-10-433-273-4
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; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-433-273-59
    US-10-472-516-5
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CURRENT APPLICATION NUMBER: US/10/433,273
CURRENT FILING DATE: 2003-11-17
PRIOR APPLICATION NUMBER: US 60/250,430
PRIOR FILING DATE: 2000-12-01
NUMBER OF SEQ ID NOS: 61
SEQ ID NO 59
SEQ ID NO 59
                                                                                                                                                                                                                       Sequence 5, Application US/10472516
Publication No. US20040248785A1
GENERAL INFORMATION:
APPLICANT: Saenko, Evgueni L.
APPLICANT: Sarafanov, Andrey G.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION:
                                                      SOFTWARE: PatentIn version 3.2
SEQ ID NO 5
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                                                                               APPLICANT: Sarafanov, Andrey G.
TITLE OF INVENTION: Methods and Compositions for Reducing Heparan Sulfate
TITLE OF INVENTION: Proteoglycan-Mediated Clearance of Factor VIII
FILE REFERENCE: 1327.066001
CURRENT APPLICATION NUMBER: US/10/472,516
CURRENT FILING DATE: 2003-09-24
PRIOR APPLICATION NUMBER: PCT/US02/00583
PRIOR FILING DATE: 2002-01-11
PRIOR FILING DATE: 2002-01-11
PRIOR FILING DATE: 2001-01-12
NUMBER: OF SEQ ID NOS: 5
                 ORGANISM: Homo sapiens
                               TYPE:
                                          LENGTH: 1424
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GENERAL INFORMATION:

GENERAL INFORMATION:

APPLICANT: Chan, Myung-Sam

APPLICANT: Chan, Sham-Yuen

APPLICANT: Keleey, William

APPLICANT: Yee, Helena

TITLE OF INVENTION: Expression System for Factor VIII

FILE REFERENCE: MSB-7255

CURRENT APPLICATION NUMBER: US/09/209,916

CURRENT TILING DATE: 1998-12-10

NUMBER OF SEQ ID NOS: 2

SOFTWARE: Patentin Ver. 2.0

SEQ ID NO 1

LENGTH: 1438
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OTHER INFORMATION: human factor VIII sequence
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Best Local S
Matches 15
           Sequence 3, Application US/09407605
Patent No. 6924365
GENERAL INFORMATION:
APPLICANT: Selden, Richard F.
APPLICANT: Miller, Allan M.
APPLICANT: Treco, Douglas A.
TITLE OF INVENTION: OPTIMIZED MESSENGER RNA
FILE REFERENCE: 10278-009001
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63734, Ap
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PRIOR APPLICATION NUMBER: US 60/130,241
PRIOR FILING DATE: 1999-04-20
PRIOR APPLICATION NUMBER: 60/102,239
PRIOR FILING DATE: 1998-09-29
NUMBER OF SEQ ID NOS: 136
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 3
LENGTH: 1445
TYPE: PRT
ORGANISM: Artificial Sequence
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APPLICANT: Miller, Allan M.
APPLICANT: Miller, Allan M.
APPLICANT: Treco, Douglas A.
TITLE OF INVENTION: OPTIMIZED MESSENGER RNA
FILE REFERENCE: 10278-009001
CURRENT APPLICATION NUMBER: US/09/407,605
CURRENT FILING DATE: 1999-09-28
PRIOR APPLICATION NUMBER: US 60/130,241
PRIOR APPLICATION NUMBER: US 60/102,239
PRIOR FILING DATE: 1998-09-29
              GENERAL INFORMATION:

APPLICANT: Jolly, Douglas J.

APPLICANT: Chang, Stephen M.W.

APPLICANT: Respess, James G.

APPLICANT: DePolo, Nicholas J.

APPLICANT: Hsu, David Chi-Tang

APPLICANT: Ibanez, Carlos E.

APPLICANT: Greengard, Judith

APPLICANT: Lee, Will
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local S
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TYPE: PRT
ORGANISM: Artificial Sequence
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OTHER INFORMATION: synthetically
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Length 1447;

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Run on: OM protein - protein search, using sw model November 25, 2005, 22:59:08; Search time 37.3448 Seconds (without alignments) 283.384 Million cell updates/sec Copyright GenCore version 5.1.6 (c) 1993 - 2005 Compugen Ltd. 332 40 53.3 3.3 621 642 NH DCTB\_RHIME Q4X104\_ASPFU

Sequence: Title: Perfect score: US-10-511-559-73\_COPY\_817\_831 MSSSPHVLRNRAQSG 15

Scoring table: BLOSUM62 Gapop 10.0 , Gapext 0.5

2166443 seqs, 705528306 residues

Searched:

Total number of hits satisfying chosen parameters: 2166443

Minimum Maximum DB seq length: 0
DB seq length: 2000000000

UniProt\_05.80:\*
1: uniprot\_sprot:\*
2: uniprot\_trembl:\*

Database

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 1000 summaries

SUMMARIES

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Q98kg0 070653 Q9ywm0

6 vibrio para
0 gloeobacter
2 xenopus lae
0 arabidopsis
3 gibbon ape
0 gibbon ape

Q9aww1 Q61xt1 Q65xxt1 Q61su3 Q41su3 Q8ktr5 Q9zb53 Q9zb53 Q9f5q1 Q6f15q1 Q6f1757 Q6f1757 Q6f1756 Q8f5f2

alcaligenes ectothiorho

mannheimia burkholderi

rhodopseudo drosophila zea mays (m solanum dem

P38316 Q5rjs0 Q93106 Q93572 Q90572 Q7k405 Q9atd5 Q9fdg0

ginglymosto tribolium c rattus norv burkholderi

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synechocyst

gossypium h
brucella ab
l oryza sativ

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086332 Q7u194 Q8tx16 Q9x582

mycobacteri mycobacteri

Q6fvj1 Q9h4g2 Q9u118 Q80g66

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Q9h876 Q9u9r6 Q9y1j4

homo sapien schistosoma schistosoma

aspergillus rhodopirell leishmania

Q8ndn8 Q12887 Q5r460 Q5r6u0 Q8nfu0 Q5jr93 Q8r8m8 Q51y78 Q8ee78 Q855ik2 Q55k841 Q5k841 Q8gay4 Q7btg9 Q74b19 Q6xj66 P13633 Q4x104 Q6d6d1 Q73d5d9 Q57wh0 Q4seb2 Q4p1se Q9s117 Q6s5c7 Q6s5c7 Q6ft33 Q72tm13 Q9s1m8 1 leptospira
8 leptospira
7 chlamydia p
8 magnaporthe
8 shewanella kinetoplast rendosymbion homo sapien homo sapien homo sapien homo sapien homo sapien homo sapien thermoanaer ustilago ma 7 arabidopsis 7 oryza sativ cryptococcu burkholderi cryptococcu bacillus ce trypanosoma pseudomonas geobacter s candida gla tetraodon aspergillus rhizobium erwinia car

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(Antihemophilic factor) (AHF) [Contains: Factor VIIIa heavy chain, kDa isoform; Factor VIIIa heavy chain, 92 kDa isoform; Factor VIII
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## ALIGNMENTS

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C;Species: Homo sapiens (man)
C;Date: 28-Aug-1985 #sequence revision 28-Aug-1985 #text change 31-Dec-2004
C;Accession: I54318; A00525; I58059; A23584; A26174; A42348; A43986; S63527;
R;Gitschier, J.; Wood, W.I.
Hum. Mol. Genet. 1, 199-200, 1992
A;Title: Sequence of the exon-containing regions of the human factor VIII ger A;Reference number: I54318; MUID:93265012; PMID:1303178
A;Accession: I54318
                             A;Molecule type: DNA, A;Molecule type: DNA, A;Restdues: 1-1921, 'S',1923-2351 <RES>A;Restdues: 1-1921, 'S',1923-2351 <RES>A;Restdues: UNIPROT:P00451; UNIPARC:UPI000016A8D3; GB:M88648; NID:g182381; A;Cross-references: UNIPROT:P00451; UNIPARC:UPI000016A8D3; GB:M88648; NID:g182381; A;Cooperation of A; Simonsen, C.C.; Eaton, D.L.; Gitschier, J.; Keyt, B.; Se Nature 312, 330-337, 1984
A;Tille: Expression of active human factor VIII from recombinant DNA clones.
A;Reference number: A00525; MUID:85061548; PMID:6438526
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    coagulation factor VIII precursor N;Alternate names: antihemophilic
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Accession: A00525
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A; Molecule type: mRNA
A; Residues: 1-2351 < MOO>
A; Cross-references: UNIPARC: UPI000012A416;
R; Toole, J.J.; Knopf, J.L.; Wozney, J.M.; (8)
B, D.N.; Hewick, R.M. R.M. 17, 1984 ; EMBL:X01165; EMBL:X01166; Sultzman, L.A.; Buecker, J. EMBL:X01179 .L.; Pittman, ו.ם.ם.;

Nature 312, 342-347, 1984
A;Title: Molecular cloning (
A;Reference number: I58059;
A;Accession: I58059 of a cDNA encoding human antihaemophilic factor, MUID:85061550; PMID:6438528

A;Status: nucleic acid sequence not shown; translated from GB/EMBL/DDBJ
A;Molecule type: mRNA
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A;Cross-references: UNIPARC:UPI0000144860; GB:K01740; NID:g182802; PIDN:AAA52484.1; P.
A;Cross-references: UNIPARC:UPI0000144860; GB:K01740; NID:g182802; PIDN:AAA52484.1; P.
A;Truett, M.A.; Blacher, R.; Burke, R.L.; Caput, D.; Chu, C.; Dina, D.; Hartcog, K.; K.
B.; Randolph, A.; Urdea, M.S.; Valenzuela, P.; Dahl, H.H.; Favalaro, J.; Hansen, J.;
DNA 4, 333-349, 1985 . Kuo

A;Reference number: A23584; A;Accession: A23584 A; Title: Characterization of the polypeptide composition 4; MUID:86081164; PMID:3935400 of human factor VIII:C and

R;Eaton, D.; Rodriguez, H.; Vehar, Biochemiatry 25, 505-512, 1986 A;Title: Proteolytic processing of A;Molecule type: mRNA A;Pesidues: 1-2351 <TRU> A;Cross-references: UNIPARC:UPI000012A416; GB:M14113; G.A. NID:g182817; PIDN: AAA52485.1;

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Correlation

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acetylglutamate A;Note: sequence extracted from NCBI backbone and correct R;Fay, P.J.; Smudzin, T.M.
J. Biol. Chem. 264, 14005-14010, 1989
A;Title: Intersubunit fluorescence energy transfer in hu A;Reference number: A43986; MUID:89340500; PMID:2503509
A;Accession: A43986 A; Molecule type: protein
A; Molecule type: protein
A; Restidues: 20-36;392-399,'X', 401-402;1668-1678;1709-1722,'D',1723-1725;1741-1755 < EAT>
A; CROSS-references: UNIPARC: UPIO000172296; UNIPARC: UPIO000172297; UNIPARC: UPIO000172298;
R; Pittman, D.D.; Wang, J.H.; Kaufman, R.J.
Biochemistry 31, 3315-3325, 1992 A; Experimental source: recombinant material from Chinese hamster ovary cells A;Molecule type: protein A;Residues: 20-36;356-371;392-408;582-594;1668-1669,'X',1671;1672-1692;1693-1708;1709-17 A;Cross-references: UNIPARC:UP10000172296; UNIPARC:UP1000017229B; UNIPARC:UP1000017229C; A; Accession: A42348 A,Title: Identification and functional importance of tyrosine A,Reference number: A42348; MUID:92207952; PMID:1554716 A;Reference number: A26174; MUID:86159740; PMID:3082357 A;Accession: A26174 corrected human ő factor VIII. sulfate correspond residues within with the publi

A; Molecule type: protein
A; Residues: 'X', 517-523; 1853-1860, 'X', 1862-1864, 'X', 1866 <FAY>
A; Cross-references: UNPARC: UPI00001722A3; UNIPARC: UPI00001722A3

R:Leyte, A.; van Schijndel, H.B.; Niehrs, J. Biol. Chem. 266, 740-746, 1991 C.; Huttner, W.B.; Verbeet, M.P.; Mertens, essential for <u>.</u>~

A;Contents: annotation; sulfation R;Gitschier, J.; Wood, W.I.; Goralka, T.M.; Wion, K.L.; Chen, Nature 312, 326-330, 1984 Ε.Υ.; Eaton, D.H.; Vehar,

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S66445;

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R;McMullen, B.A.; Fujikawa, K.; Davie, E.W.; Hedner, U.; E Protein Sci. 4, 740-746, 1995
A;Title: Locations of disulfide bonds and free cysteines 1
A;Reference number: A56216; MUID:95338127; PMID:7613471
A;Contents: annotation; disulfide bonds
A;Note: 329-Cys, 711-Cys, and 2019-Cys were shown to have R;Kjalke, M.; Heding, A.; Talbo, G.; Persson, E.; Thomsen, Eur. J. Biochem. 234, 773-779, 1995
A;Title: Amino acid residues 779-7195
A;Reference number: S63527; MUID:96163459; PMID:8575434
A;Accession: S63527 A;Title: Characterization of the human factor VIII gene A;Reference number: A56196; MUID:85061547; PMID:6438525 A;Contents: annotation; introns in Ezban, the heavy Z and light

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A; Notecond type: protein
A; Molecule type: protein
A; Residues: 733-752;753-759 <KJA>
A; Residues: 733-752;753-759 <KJA>
A; Cross-references: UNIPARC: UPI00001722A4; UNIPARC: UPI00001722A5
A; Cross-references: UNIPARC: UPI00001722A4; UNIPARC: UPI00001722A5 A.; Gray,

R;Lind, P.; Larsson, K.; Spira, J.; Sydow-Baeckman, M Eur. J. Biochem. 232, 19-27, 1995 Eur. J. Wovel forms of B-domain-deleted recombinant A;Telference number: S66445; MUID:96048024; PMID:75561 PMID:7556150 factor VIII molecules. Construction

E.; Sandberg

A; Accession: S66445 A; Status: preliminary

A;Molecule type: protein
A;Residues: 1668-1685 <LIN>
A;Cross-references: UNIPARC:UPI00001722A6
C;Comment: Factor VIII is activated by fav

Genetics: factor Χa and thrombin, but prolonged exposure

A; Cross-references: GDB:119124; OMIM:306700

A; Map position: Xq28-Xq28 A; Introns: 48/2; 89/1; 130/1; 201/1; 224/1; 263/1; 337/1; 424/2; 481/3; 513/1; C; Function: 584/3;

A; Pathway: blood coagulation C; Superfamily: coagulation factors v/VIII; discoidin I C; Keywords: acute phase; blood coagulation; duplication C; Keywords: A; Description: acts as a cofactor, with calcium duplication; and phospholipid, amino-terminal glycoprotein; for homology; fe; hemophilia the A ;

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F;20-2351/Product: coagulation factor VIIIa heavy chain F;20-356/Domain: Al <DAI> #status experimental <MAT> experimental

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